

reacting said hydrocarbon mixture containing olefins and having a boiling range within the range of C₄ to 250° C, and a sulfur content of at least 150 ppm with hydrogen in the presence of a catalytic composition comprising:

a) an acidic carrier consisting of a silica and alumina gel, amorphous to X-rays, with a molar ratio SiO₂/Al₂O₃ of 30/1 to 500/1, having a surface area ranging from 500 to 1000 m²/g, a porosity of 0.3 to 0.6 ml/g and a pore diameter within the range of 10-40 Å;

b) a mixture of metals belonging to Groups VIB and VIII of the Periodic Table deposited on the carrier in an overall quantity ranging from 2 to 67 % by weight with respect to the total amount of components (a) + (b), thereby effecting said hydrodesulfurization with concomitant skeletal isomerization of the olefins of said mixture.

17. (Amended) The process according to Claim 1, wherein the hydrocarbon mixture which is subjected to hydrodesulfuration is a mixture that boils within the range of C₅ to 220° C.

18. (Amended) The process according to Claim 1, wherein the catalyst is activated by sulfidation.--

Please add new Claim 27 as follows:

--27. (Newly Added) The process according to Claim 1, wherein the hydrocarbon mixture is a full range naphtha having a boiling range of 35° -250° C. --

REMARKS

Claims 1-18 and newly added Claim 27 are active in the case. Reconsideration is respectfully requested.